SIGMA-ALDRICH

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 4.0 Revision Date 13,03,2010 Print Date 08,09,2010

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO CEL DATA

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Bis(trifluoromethane)sulfonimide lithium salt

Product Number : 544094 Brand : Aldrich

Company ; Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone : +18003255832 Fax : +18003255052 Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Acute toxicity (Category 3)
Acute toxicity (Category 3)
Skin corrosion (Category 1B)

Chronic aquatic toxicity (Category 3)

According to European Directive 67/548/EEC as amended.

Causes burns. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxic in contact with skin and if swallowed.

Label elements

Pictogram



Signal word

Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage.

H301 Toxic if swallowed.
H311 Toxic in contact with skin.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Hazard symbol(s)

Toxic

R-phrase(s)

R24/25 Toxic in contact with skin and if swallowed.

R34 Causes burns.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the

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aquatic environment.

S-phrase(s)

S22 Do not breathe dust.

S26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately

(show the label where possible),

S61 Avoid release to the environment, Refer to special instructions/ Safety data

sbeets.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Bis(trifluoromethylsulfonyl)aminelithium salt.

Lithium bistrifluoromethanesulfonimidate

Formula : C₂F₆LiNO₄S₂ Molecular Weight : 287,09 g/mol

CAS-No.	EC-No.	Index-No.	Classification	Concentration	
Bis(trifluoromethane)sulfonimide lithium salt					
90076-65-6	415-300-0	616-124-00-9	Acute Tox. 3; Skin Corr. 1B; Aquatic Chronic 3; H314, H301, H311, H412 T, R24/25 - R34 - R48/22 - R52/53		

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

in case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

if swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

8. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Wethods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Handle and store under inert gas. Moisture sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

S. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	powder
Colour	white

Safety data

рН	7,0 - 9,5 at 10 g/l
Melting paint	234 - 238 °C - lit.
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available

ca. 10 g/l at 20 °C

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Avoid maisture.

Materials to avoid

Strong exidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Hydrogen fluoride, Lithium oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available.

Skin corresion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation

May be harmful if inhaled. Material is extremely destructive to the tissue of the

mucous membranes and upper respiratory tract.

Ingestion

Toxic if swallowed. Causes burns.

Skin

Toxic if absorbed through skin. Causes skin burns.

Eyes Causes eye burns,

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Additional Information

RTECS: no data available

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish

LC50 - Pimephales prometas (fathead minnow) - 202 mg/l - 96,0 h

Toxicity to daphnia and other aquatic

EC50 - Daphnia magna (Water flea) - 20 mg/l - 48 h

and other aqua invertebrates.

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number, 2923 Class; 8 (6.1) Packing group; II

Proper shipping name: CORPOSIVE SOLID, TOXIC, N.O.S. (Bis(trifluoromethane)sulfonimide lithium sait)

IMDG

UN-Number: 2923 Class: 8 (6.1)

Packing group: II

EMS-No: F-A, S-B

Proper shipping name: CORROSIVE SOLID, TOXIC, N.O.S. (Bis(trifluoromethane)sulfonimide lithium salt)

Marine pollutant: No

IATA

UN-Number; 2923 Class; 8 (6.1)

Packing group: II

Proper shipping name: Corrosive solid, toxic, n.o.s. (Bis(trifluoromethane)sulfonimide lithium salt)

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Acute Tox. Acute toxicity

Aquatic Chronic Chronic aquatic toxicity
H301 Toxic if swallowed.
H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Skin Corr. Skin corresion

Toxio T

R24/25 Toxic in contact with skin and if swallowed

R34 Causes burns.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information

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